

Research And Coordinated Concentration On Original New Scholarship

First Meeting, 1/29: Laid out goals of having at least one paper submitted by May 1st. Assignment was to search for journals likely to accept the sort of work we can produce in the time allotted.

Second Meeting, 2/5: Greg presented Writing for Professional Publication [handout](#). Dave and Greg found several sets of Instructions for Authors. Candidate publications include:

American Scientist
Anatomical Record
Applied Environmental Education and Communication.
Bioscience
Education Research Quarterly
Journal of General Ed
Journal of Higher Ed
Science Education
Journal of Research in Science Teaching
Journal of College Reading & Learning
Journal of College Science Teaching

Third Meeting, 2/12: Grady and Dave were charged with going over possible topics. Everyone else was attending the Health Advisors meeting in Dallas.

- Vector awareness survey
- Implementation of Lab Safety Procedures
- Pathways to Success in the Sciences (Cyndi has text)
- Compare SAT/ACT scores of CLS vs. Pre-Pro vs. Nursing--what are the implications in terms of teaching these variate groups?
- Compare our SAT/ACT scores with those of other HSI's ((UT-Brownsville, UT-Pan Am, TX Int'l-Laredo) for the freshman class, and compare the difference in retention based on learning communities
- Are math levels of entering students critical for scientific success of students? Compare grades and performance of students in Biology I and/or II with or without Algebra II.
- Is peer mentoring effective in retention of students in science classes?
- For students in the magnet schools (Moody & West Oso HS), are their retention rates in college better than students from similar socioeconomic background who are not in science magnet schools?
- Do students who have had AP Biology scores of <4 perform better in their biology classes?
- Why don't South Texas high school grads go to college? Sample mostly brown and mostly white schools in CCISD, West Oso, Robstown, Gregory-Portland, Alice, Kingsville, Beeville, Premont. (Background is that we will need to know

- percentage of incoming frosh who qualify for financial aide and how much they get.)
- Teaching Microbiology and A&P to different student populations.
-
-

What are the questions we need for the surveys?

- Vector:
- Where do baby mosquitoes come from?
 - standing water
- When are mosquitoes most abundant?
 - about 10 days after a major rainfall
- At what time of day are you most likely to be bothered by mosquitoes?
 - sunset
- What attracts mosquitoes to you?
 - check on clothing color (check this)
- How far does an average mosquito travel for a meal?
 - about 100 yards
- What can you do to prevent mosquitoes around your home?
 - empty out areas of standing water
- Where did you learn about mosquitoes?
 - word of mouth and personal experience
 - ads on radio or TV
 - Lesson in a classroom
- What do you think your city or town does for mosquito control?
- Which of the following mosquito-borne diseases have you ever heard of?
 - malaria
 - dengue
 - encephalitis
 - West Nile Virus
- Which of the following is an effective personal protection against mosquitoes?
 - DEET based repellants
 - wear long-sleeves and socks
 - minimize time outside at dawn and dusk
 - Stay away from vegetation in standing water.

Demographic:

male/female, <20, 20-40 over 40, live in town/out in the country,

High School but not going to college?

Male/female

Ethnic group

Age

Grade

Zip code

Number of brothers and sisters

Has anyone in your immediate family ever graduated from college?

1) Do you plan to attend any school or any type after graduation?

2) If no, what do you plan to do after graduation?

If no, would you like to attend college but cannot?

If yes, why not?

3) If yes to #1, what sort of school? Community College, Trade School, Military Training, University,

4) How much more money does a college graduate make versus a high school only graduate over their lifetime?

5) Which of the following is a common activity of your family members at home?

a) watching TV

b) playing video games

c) reading newspapers or magazines

d) recreational sports

e) other: _____

6) Have you ever been a member of any scouting organizations, civic clubs, or career clubs such as 4-H, FFA, etc.?

7) If no to question #1, what would it take to interest you in attending college?

Fourth Meeting, 2/19: Bart joined us as we brought everyone up to speed on Bob Bezdek's survey [recommendations](#). We discussed existing options and assigned work tasks to begin:

Bart – Vector Survey

Cyndi – Pathways to Success paper

Greg – Magnet schools and retention

Dave – Lab Safety

Everyone will report back next week with at least some incremental progress to beginning to generate and/or assimilate data.

In the meantime, here are the URLs that Dave put together for author instructions:

Medical Education:

<http://medicaleducation.manuscriptcentral.com/index.html?mode=instruction>

BioScience:

http://www.aibs.org/bioscience/authors_and_reviewers.html

Education for Health:

<http://www.tandf.co.uk/journals/authors/cefhauth.asp>

Applied Environmental Education and Communication:

<http://www.tandf.co.uk/journals/authors/ueecauth.asp>

Journal of Women and Minorities in Science and Engineering:

<http://www.begellhouse.com/journals/00551c876cc2f027.html>